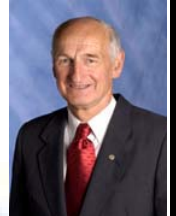


# ROTARY CLUB OF SALE INC.

CHARTERED 1928



WEEKLY BULLETIN OF THE ROTARY CLUB OF SALE.

Vol 79 No. 17      16th October 2006

October 2006 – Vocational Service Month

**Club President**  
Grant Ellers  
**Secretary**  
Laurie Smyth

**R.I. President**  
William (Bill) Boyd  
**District Governor**  
Dennis Heslin  
**Assistant Governor**  
Brian Norris

Chairman: Alan Lewis

## PRESIDENTS' ANNOUNCEMENTS

- President Grant announced that Alan has accepted the position of Chair for the Australia Day activities committee. Leo and Brian volunteered to join the committee.
- Grant attended the National Youth Science Forum orientation day at Monash Churchill and reported that it had been a good event. In the selection process 45 applications were received for 12 places allocated to District 9820. There were three successful applicants from Sale.
- Grant mentioned the Swing Bridge project.
- He thanked Daniel for restoring the Rotary gong.
- Grant passed around the signs that will be displayed along the River Heritage Trail. Alan explained that they have been made with a new technology and that they are expected to be virtually indestructible but that they will be covered with Perspex. A working bee on November 11 from 8:30am will be used to put the signs up.

## Guest Speaker: Scott Hargreaves – Investing in a Low Emission Future

In his introduction of the guest speaker, Chairman Alan recalled that at the time the oil industry started in Sale, oil was expected to fetch \$70 a barrel by 2000. It actually reached this price in 2004.

Scott took up this point and stated that it is still cheaper to retrieve oil from reserves than it is to obtain it from coal but the Monash Energy Project is looking at converting brown coal from the Latrobe Valley to oil for when oil is no longer available.

The process consists of drying the coal, gasifying it and converting the gas to a synthetic diesel, which is ultra clean, via the Fischer Tropsch process. The project is supported through an agreement with Anglo American, the world's

third biggest mining company, and Shell, the leader in coal conversion technology.

In the process, unused carbon dioxide will be collected and stored by Carbon Capture and Storage with a study of the Gippsland Basin underway to find potential geological sites.

Scott informed members that three factors are driving



Scott Hargreaves explaining a point about Carbon Capture and Storage

this project: Climate change, Energy security (self sufficiency) and Price. He indicated that the project is still at the conceptual stage but that with a world class resource of brown coal in the Latrobe Valley and the depleted oil fields a providing a potential storage site for carbon dioxide, the project could be up and running by the middle of the next decade.

Brown Coal

Drying

Gasification

Liquids  
eg. Diesel



### Carbon Capture and Storage

The process of Carbon Capture and Storage ('CCS'), also known as geosequestration, has been identified as the critical step which enables the world to cope with increases in energy demand while achieving 'Deep Cuts' in Greenhouse Gas emissions.

Critically for the competitiveness of Australian industry, it enables development of a new generation of low-emission power stations.

**Australia and Monash Energy are at the forefront of moving CCS to reality.**

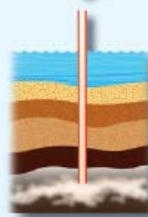
Monash Energy is working with State and Federal Government agencies to ensure all technical and commercial aspects of Carbon Capture and Storage are investigated and appropriate regulatory structures established.

### Current Status

The project is currently in pre-feasibility. It is likely that a demonstration plant would first be built at a cost of more than \$600 million to ensure the critical coal drying and gasification technologies are proven at commercial scale before proceeding with the investment in the large-scale plant.

Contact: [info@monashenergy.com.au](mailto:info@monashenergy.com.au)  
Phone: + 613 9868 7800  
[www.monashenergy.com.au](http://www.monashenergy.com.au)

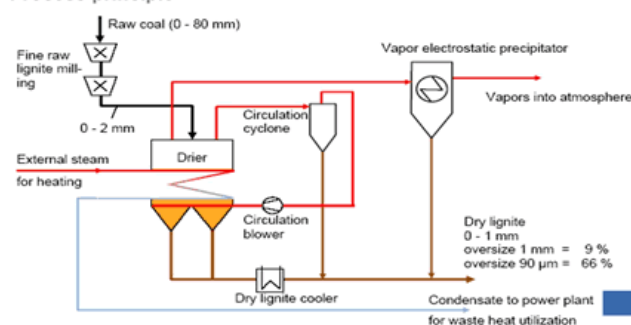
CO<sub>2</sub>  
for storage



### Reducing Moisture Content

The Monash Energy project utilises brown coal, which has a much higher moisture content than black coal. It is this higher moisture content which drives the lower efficiency ratings of brown coal fired power plants when compared to black coal counterparts and also, the higher greenhouse gas emissions per unit of output. For this reason, pre-drying of brown coal has long been identified as a potential means of improving the efficiency of combustion in brown coal fired power plants.

WTA Fine Grain Drying at Frechen  
Process principle



### Catalytic Process for Gas to Liquid Conversion

The original Fischer-Tropsch process was developed by Franz Fischer and Hans Tropsch in Germany during the 1920's for the production of liquid fuels. The chemical reaction converts syngas (ie. A composition of CO and H<sub>2</sub>) into liquid hydrocarbons, with the addition of a catalyst (usually iron or cobalt). The resulting hydrocarbon products are then refined to produce a range of synthetic fuels, which may include diesel, gasoline, naphtha, Liquid LPG and/or various other products.

Gas to Liquids is a relatively mature technology with a number of corporations worldwide offering solutions.

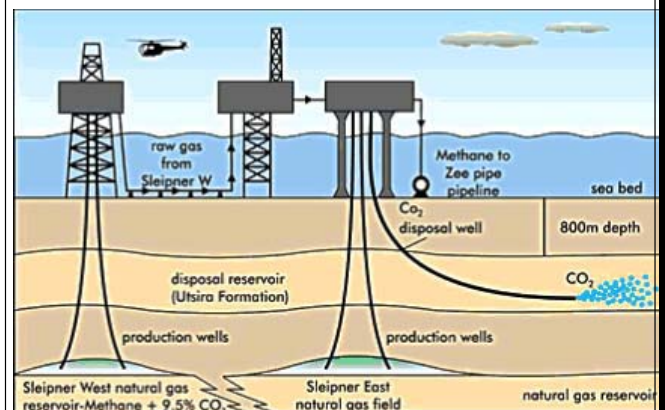
### Geosequestration (CCS)

Sleipner A, a Norwegian oil platform in the North Sea, injects 2,800 tonnes of carbon dioxide daily into the Utsira sandstone, a million tonnes per year. Storing this gas below ground keeps it from adding to the greenhouse effect.

Carbon dioxide is a colourless, non-combustible gas. Heavier than air, it forms about 0.036 per cent of the Earth's atmosphere. Since the industrial revolution began almost 250 years ago, the concentration of carbon dioxide in the air has been steadily rising.

More than six billion tonnes of carbon are emitted worldwide every year from burning fossil energy sources.

Carbon dioxide emissions are believed to contribute to the "greenhouse effect", an increase in atmospheric carbon dioxide which prevents heat radiated from the Earth escaping into space. Instead, it gets reflected back and warms up the planet.



Scott's talk elicited many questions from the members. In response to Bob's question, Scott indicated the cost of the project to start-up could be in the vicinity of \$5 Billion. Mike had a number of questions. Scott said that the Japanese technology was different from that being investigated under this project. He also said that it is possible that by replacing the depleted gas field the aquifer would be re-pressurised but that the pipes used for tapping the gas would not be suitable for piping the CO<sub>2</sub>.

Emu enquired about the number of people working on the project and was informed that it is only a small operation with numbers in the tens. Scott anticipated that the demonstration phase should be next year and construction of the main plant should start in 2011 -2012. Further questions were asked by Brian, Alan, David and Grant



Alan discusses some of the points with Scott before Grant thanked him for his address and presented him with a bottle of wine.

before Grant thanked Scott and Alan closed the meeting

**Sergeant-at-Arms:** Rod Exton

- Sergeant Rod fined Ben for being suitably late, nearly displacing Adrian as the latest arrival.
- Just for good measure, he collected from Adrian for being late as usual.
- Was Emu's cardigan really inside out? Whether it was or not, Rod made sure that Emu paid up for creating the uncertainty.
- Lyndon could not avoid a fine for his government funded jaunt to North Korea.
- Noel received another golfing fine for scoring 81.
- Alan copped a fine for being left in charge of computers at the show where the first reaction of students is to find restricted sites.
- Mike paid up for the advice he offered about how to prevent his house from falling down – after the event.
- Leo paid up for his company logo, FOB. Not Free On Board but Full Of Bull\*\*\*\*.
- Bob and Brian also scored a fine but there was some doubt about why. They paid up anyway.

<b>NEXT MEETING Monday 23<sup>rd</sup> Oct</b>	<b>Meeting Monday 30<sup>th</sup> Oct</b>	<b>ON THE RADAR</b>
<b>Guest Speaker:</b> Jane Oakley – Telstra Countrywide	<b>Guest Speaker:</b> Keith Miller – Sale Show Briefing	Mon 6 <sup>th</sup> Nov – No Meeting
<b>Chair:</b> Chris Harrison	<b>Chair:</b>	Mon 13 <sup>th</sup> Nov – Woolenook Farm - Briagolong
<b>Sergeant:</b> Mike	<b>Sergeant:</b>	Mon 11 <sup>th</sup> Dec - Bishop John McIntyre
<b>Attendance:</b> Noel Langley	<b>Attendance:</b> Noel Langley	<b>Partner's night for the annual Christmas message. Mark this date in your diary.</b>
<b>Set up:</b> Tania	<b>Set up:</b>	
<b>Venue:</b> Relish	<b>Venue:</b> Relish	

<b>Relish Contact Details</b>	<b>NOTICES</b>
Hosts: Tania Jones & Robert Wood	Attendance: 15 Rotarians.
Phone/Fax: (03) 5144 5044	Visiting Rotarians: None
Rotarians, if you are going to be absent you <b>must</b> notify Relish by phone no later than 12:00 midday on the Monday of the meeting or let Noel know the week before.	Guests: None
If you are away from home you will find friends at all Rotary Clubs. You can make up for missed meetings of the Sale Club with any of the following local Clubs:	Make-Ups: None reported
Bairnsdale: Tuesday 6:00pm Bairnsdale Club	Raffle: Alan drew his own ticket and won the wine.
Bairnsdale Sunrise: Friday 6:45am Main Hotel	Maffra: Thursday 6:00pm Duart Receptions
Heyfield: Monday 6:30 Railway Hotel	Mitchell River: Monday 5:45pm Italian Club
Lakes Entrance: Wednesday 6:00pm Bellevue Motel	Sale Central: Tuesday 6:00pm Princeton
	Traralgon: Tuesday 6:00pm Traralgon Golf Club
	Traralgon Central: Monday 6:00pm Latrobe Convention Centre
	Yarram: Wednesday 6:00pm Yarram Club

For more information about Rotary check the following websites  
 Rotary Club of Sale: <http://home.vicnet.net.au/~rcsale/>  
 Rotary District 9820: [www.district9820.org](http://www.district9820.org)  
 Rotary International: <http://www.rotary.org>

### Just for Fun

30 One-Liners you might be able to use at some time

1. My husband and I divorced over religious differences. He thought he was God and I didn't.
2. I don't suffer from insanity; I enjoy every minute of it.
3. I work hard because millions on welfare depend on me!
4. Some people are alive only because it's illegal to kill them.
5. I used to have a handle on life, but it broke.
6. Don't take life too seriously; no one gets out alive.
7. You're just jealous because the voices only talk to me
8. Beauty is in the eye of the beer holder.
9. Earth is the insane asylum for the universe.
10. I'm not a complete idiot -- Some parts are missing.
11. Out of my mind. Back in five minutes.
12. NyQuil, the stuffy, sneezy, why-the-heck-is-the-room-spinning medicine.
13. God must love stupid people; He made so many.
14. The gene pool could use a little chlorine.
15. Consciousness: That annoying time between naps.
16. Ever stop to think, and forget to start again?
17. Being "over the hill" is much better than being under it!
18. Wrinkled was not one of the things I wanted to be when I grew up.
19. Procrastinate Now!
20. I have a degree in Liberal Arts; Do you want fries with that?
21. A hangover is the wrath of grapes.
22. A journey of a thousand miles begins with a cash advance
23. Stupidity is not a handicap. Park elsewhere!
24. They call it PMS because MadCow Disease was already taken.
25. He who dies with the most toys is nonetheless dead.
26. A picture is worth a thousand words, but it uses up three thousand times the memory.
27. Ham and eggs. A day's work for a chicken, a lifetime commitment for a pig.
28. The trouble with life is there's no background music.
29. The original point and click interface, was a Smith and Wesson.
30. I smile because I don't know what the hell is going on.

### Marathon Muster

Enjoy a rural ramble with social barbecue at "Woolenook" farm's Rock Cottage, Marathon Rd., Briagolong. Optional walk of the Peach Flat Wetlands trail, visit a hidden 1870s settler's original galvanized iron cottage, repose among the red gums or beside the roaring fire in the log cottage and hear the recitations of early Australian poetry from Ross Noble of the Gippsland Bush Poets' Association.



**Remember: You MUST notify Rob at Relish if you will not be attending the meeting.**